

# PATENT SPECIFICATION

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## (54) RADIO RECEIVERS

(71) We, STANDARD TELEPHONES AND CABLES LIMITED, a British Company, of 190 Strand, London, W.C.2, England, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

10 This invention relates to radio receivers. According to the present invention there is provided a radio receiver comprising a radio-frequency stage, a single channel audio-frequency stage, a decoder for stereophonic reception, a socket for receiving a plug of a stereophonic sound transducer, and a switch arrangement which is operable by insertion of said plug to switch out the audio-frequency stage and to apply operating current to the decoder.

An embodiment of the invention is described below with reference to the accompanying drawing.

25 A battery-operated portable radio receiver comprises a radio-frequency stage 1 followed by a single channel audio-frequency output stage 2 and a decoder 3 for stereophonic reception having connections symbolized by 4. The HT line 5 supplies operating current to all the units.

30 When in use for stereophonic reception the working of the a.f. stage 2 is not needed,

and similarly, if stereophonic reception is not called for, the working of the decoder is not needed. Accordingly the current supply leads for these units contain switches 6 and 7 respectively. The insertion of the plug 8 of a pair of stereophonic headphones 9 into a jack 10 not only connects the headphones to the decoder but also, either mechanically or electromagnetically causes switch 6 to open and switch 7 to close, cutting off the supply of current to the a.f. stage and applying it instead to the decoder. Withdrawal of the plug reverses this condition.

The radio receiver, of course, need not be portable, and twin loudspeakers may replace the headphones.

### WHAT WE CLAIM IS:—

1. A radio receiver comprising a radio-frequency stage, a single channel audio-frequency stage, a decoder for stereophonic reception, a socket for receiving a plug of a stereophonic sound transducer, and a switch arrangement which is operable by insertion of said plug to switch out the audio-frequency stage and to apply operating current to the decoder.

2. A radio receiver substantially as described with reference to the accompanying drawing.

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 For the Applicants.

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